9 May 1979

MEMORANDUM FOR:

25X1A
Deputy to the DCI for Resource Management

VIA:

25X1A
Chief, Administrative Staff, RMS

FROM:

25X1A
Director, Information Resources Office

SUBJECT: Request for Proposal for the Baseline
Imagery ADP-T Study

1. Request to undertake the contract efforts described in the attached Request for Proposal dated 30 April 1979. This request is for contractor support to develop and specify the impact of mid-1980 imagery collection systems upon the present ADP-T systems. It is planned that this study will be similar in nature to the ____ data flow study which is in progress. The methodology used in the ____ study will be employed in this study. The costs of the contractor tasks reflected in this Request for Proposal should not exceed ____ period of eight months.

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2. The initial phase of this Imagery ADP-T Study will be performed by the IRO Staff which should add a significant amount of data in time to support the FY 1981 program and budget reviews. The study contract could require the contractor to make trips to various commands to collect data.   25X1A

Attachment: a/s

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25X1A
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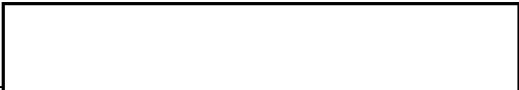
TOP SECRET

SUBJECT: Request for Proposal for the Baseline
Imagery ADP-T Study

APPROVED:

25X1A

Deputy to the DCI for Resource Management

14 May 79
Date

DISAPPROVED:

Deputy to the DCI for Resource Management

Date

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SUBJECT: Request for Proposal for the Baseline
Imagery ADP-T Study

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Imagery ADP-T Study
Request for Proposal (RFP)

30 April 1979

1. Introduction:

The Information Resources Office (IRO) of the staff of the Deputy to the DCI for Resource Management (D/DCI/RM) is soliciting proposals to assist the IRO in the investigation, analysis, and reporting of the data flow of information associated with the collection, processing, production, dissemination, and exploitation of imagery information. The selected contractor will work with and assist IRO in developing the baseline of information and reporting of future ADP-T (automated data processing-telecommunications) resources as a result of new and planned imagery systems which will be operational in the mid-1980's. This data will encompass the overhead subset of the PHOTINT activities of the U.S. Intelligence Community. It is planned that this contract will be awarded on or about 1 July 1979, and will continue to 1 March 1980. The level of effort required is expected to be two (2) qualified individuals, with appropriate administrative support throughout the duration of the contract.

2. Background and Rationale:

As a result of FY 1980 budget decisions, money has been approved for the development of new or modified imagery satellites which will become operational in 1984. These satellites will generate additional requirements for ADP-T in the 1984 time frame which will require the enhancement and/or expansion of present facilities. This study is required to:

a. Quantify the resource impact of these changes.

b. Assure that resource needs are identified and adequate justification for resources exists.

c. Identify the long-range impact of the 1984 imagery mix.

A schematic diagram of the ADP-T systems employed by the present imagery complex is found in Figure 1. Many of those systems are large and complex. Several existing systems are in transitional stages of modifications. Figure 2 lists the present and planned collection systems, Tasking and Requirements and Exploitation ADP Systems, and the Telecommunications Systems. It will be the contractor's task initially to analyze the baseline information relating to each of these systems and to develop and analyze the impact of each of the collection systems upon each of these ADP-T systems.

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In order to standardize the baseline collected data, a format has been developed by IRO and is found in Appendix A of this RFP. Although the concept of this format is standard, the contractor can request modifications or additions to be made with prior approval of IRO.

3. Plan of Work:

The total study is organized as follows:

Phase I   - Baseline configurations and current capabilities
           - Collection system changes that impact the ADP-T baseline
           - Review planning for FY 80-84; both technical changes
             and cost impacts
           - Target Completion Date--June 15, 1979
           - Phase I to be completed by IRO Staff

Phase II   - Analysis of cost and planning data to meet objectives
           - Development of initial resource plan
           - Target Completion Date--October 1, 1979
           - Phase II to be completed by IRO and contractor personnel

Phase III - Complete details of imagery data flow
           - Revision of imagery ADP-T resource plan
           - Target Completion Date--March 1, 1980
           - Phase III to be completed by IRO and contractor personnel

4. Contractor Tasks:

The contractor will support this study by:

Collection of data for analysis and analysis of the data regarding ADP-T systems used to support imagery as described in the phase tasks below:

Phase II - The contractor will be required to meet with all organizations listed in Figure 2 to collect data flow information. The data flow information should include descriptions of the contents of system inputs and outputs, frequency of the data, interfaces to other systems and factors contributing to changes in information flow. Costing information should be derived to determine the impact of the new collection systems.

Data analysis will be performed to develop a baseline document which will include the nodes and information processing data flow represented by the organizations found in Figure 2. The documentation resulting from this phase will represent the total imagery data flow. The contents of this document will cover the requirements, collections, collection processing, intermediate and centralized processing, and specific production phases of the data flow.

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Phase III - This phase will be directed toward a comprehensive description of the imagery data flow in the FY 80-84 time period from the perspective of (1) data flow through all processes, from collection through production to consumers; (2) capabilities and shortcomings of all ADP-T involved in those processes; and (3) interdependencies and interactions among multiple entities. Based upon the results of this study and analysis thereof, the contractor shall make suggestions for the revision of the imagery ADP-T plan, as appropriate.

5. Reports:

Generate periodic reports as follows:

a. Monthly status reports - In addition to financial contract status reports which are supplied to the contracting officer monthly, the contractor will also supply a monthly report, of a page or two in length, to IRO summarizing the previous month's activity, meetings, etc., and planned activities and contacts for the next month.

b. At the conclusion of Phase II, the contractor shall submit a preliminary draft report of the results of this phase. Because of the security classification of this material, the contractor may submit an original document for reproduction, limited to printing, by the sponsor. Oral presentation material of the findings of this phase are also required at this time.

c. At the conclusion of Phase III, the contractor shall submit a final report of the results of both Phases II and III. Oral presentation material of the findings and recommendations of this study are also required at this time. Document printing procedures described above may be used.

6. Contractor Bid Requirements:

In response to this RFP, responsive contractors should submit a written proposal which will be segmented and prioritized: (1) to address a representative subset of the total overhead imagery activities; and (2) to approach the study in a prioritized fashion so as to optimize available contractor resources. Each of the above two phases where contractor participation is required is separable. Both phases will be awarded to a single contractor. Work on Phase III may not be continued bases upon the availability of data collected and analyzed in Phase II. The contractor should be prepared to submit two cost proposals, if they are different, for his personnel working in his offices and at the CHB by phase.

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7. <u>RFP Schedule</u>:

Issue of RFP   -   May 14, 1979
Receipt of Proposals   -   June 11, 1979
Contract Award   -   June 27, 1979
Start of Work   -   July 2, 1979

The above dates represent major RFP milestones. All questions relating to this RFP should be submitted in writing. All answers to questions asked will be distributed in writing to all prospective qualified contractors.

8. <u>Phase Schedules</u>:

Completion of Phase II   -   October 1, 1979
Completion of Phase III -   March 1, 1980

9. <u>Hardware Exclusion</u>:

The successful contractor awarded this contract will be prohibited from submitting bids for hardware for imagery systems studied under this contract for a period of five (5) years from the award of this contract.

10. <u>Software Exclusion</u>:

The successful contractor awarded this contract will be prohibited from submitting a proposal as a prime contractor, or as a team member of another contracting team, for software development for imagery systems studied under this contract for a period of five (5) years from the award of this contract. The successful contractor may, however, contract to a prime contractor for software development tasks after a prime contractor has been awarded an imagery software development contract.

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Imagery ADP-T Study

Data Call

Information Resources Office

Resource Management Staff

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Imagery ADP-T Study - Resource Summary

The information required for the imagery study includes a resource
baseline of installed and operating ADP-T systems. This Data Call re-
presents the requests for the collection of this information. The Data
Call is divided into the following sections:

1.0 Automatic Data Processing and Data Base Resources -

definitions and format requirements for reporting

automatic data processing and data base resources.

2.0 Telecommunications Resources - definitions and format

requirements for reporting telecommunications resources.

3.0 Glossary - glossary of acronyms used in an agency's sub-

mission.

4.0 Example of Format - an example of the format of the de-

sired information.

1.0 Automatic Data Processing and Data Base Resources

1.1 Reporting Definitions-The information required for this phase
of the imagery ADP study would include ADP resources which support
the flow of data. The information desired is primarily organized
by the major intelligence community agencies. The ADP systems would
be documented by the agency that "owns" the system (i.e. the agency
for which the system was purchased, designed and developed: the
agency that is the primary user of the system). The ADP and Data
Base resources should be addressed within a specific organization
and its component suborganizations.

1.1.1 Hardware Systems-An ADP system can range in size from a single
small CPU with a minimum of peripherals to multiple large-scale
CPUs joined for a specific purpose and connected to a wide range
of peripheral devices. Each ADP system within the intelligence com-
munity is described as one of the following four basic types:

> 1. General Purpose Information System
>
> 2. Communications Support Information System
>
> 3. Administrative Support Information System
>
> 4. Dedicated Support Information System

The General Purpose Information System are those technical and
application support systems within an agency's ADP organization and
on which any element of the organization may compete for resources.

1

The Communications Support Information Systems are those systems dedicated to information receipt, forwarding and routing. They provide terminals for data flow into and out of a facility. Those systems which provide data routing or switching within a facility are also included in this category.

The Administrative Support Information Systems category is provided for those general purpose systems which support the administrative rather than technical applications. An example might be a system dedicated to payroll, personnel, or inventory management.

The Dedicated Support Information Systems category will include any ADP systems which are wholly owned by a specific organization with-. in an agency. The organization cited is normally responsible for development, support and resource allocation of these systems, although procurement is often performed by another organization. These systems range in magnitude from large scale computing systems to small, very specialized analysis support systems.

There is another category of ADP system which is included in this summary of systems within the context of the above categories. This system is sometimes known as a "project" and is a name given to those portions of existing (and perhaps new) ADP systems which become components of a project to support a specific function. These projects will be documented as separate systems with references to the component systems as appropriate. The component systems description will also contain a reference to any "projects" in which the system participates.

2

The description of a specific ADP resource will include two diagrams; one to show the flow of data through each resource and the other to present a functional hardware configuration diagram for each resource. These diagrams represent the flow of data for all nodes supported by a resource. Interfacing nodes and ADP resources will be indicated. (In a later phase of this Imagery ADP-T Study, periodicity of information and volume of data will be requested.) The ADP resource will be presented as a transfer node and the specifics of information handling by the resource will be described under the appropriate support and application software package descriptions. The appropriate application software packages and data bases acronyms will be indicated on the ADP resource diagram.

Each hardware configuration diagram should identify the basic CPU type and hookup. The number and type of peripherals should be identified where possible. If peripherals are located remotely from the agency owning the ADP resource, this information should be presented.

1.1.2 Software Systems-Data bases are described within the context of the ADP system on which they are generated or maintained. Three types of data bases are included in this report:

1. Product Data Bases - Those functional sets of data which are controlled and distributed throughout the intelligence community in either computer readable form or hard copy.

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2. <u>Support Data Bases</u> - Those functional sets of data which support the activities of a given node or agency, requiring inputs from other agencies or nodes, and generally are not under community-wide control.

3. <u>Process-Unique Data Bases</u> - Those that are used within an ADP process. These are characterized by inputs and outputs all internal to the ADP system of which they are part. Any large software system has multiple data bases ("files") of this type. In this report, elements in this category will be discussed in the software description, but these data bases will not be singled out as either "product" or "support", and detailed data base descriptions (other than necessary to describe the process) should not be included.

Product data bases will be noted within the context of the generating system and within the context of any using system. Where appropriate, information will be provided to indicate how the product data base is tailored to support individual users. Data sources will be provided for all data bases described. Where multiple data bases are maintained as a part of a data system, each functional part will be described within the context of products or support data base and the data system will be identified.

1.1.3 <u>Organization of Reporting Data</u>-The ADP system data information desired in each subsection should be augmented by textual information and organized as follows:

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1. Cross Reference to phase of intelligence flow, user organizations, etc.

2. Administrative Information on financial data, software languages and data storage capability.

3. Operational Information for the ADP system.

4. Data Flow through the ADP system.

5. Hardware Configuration.

6. Support Software information.

7. Applications Software information.

8. Product Data Base information.

9. Support Data Base information.

10. Utilization data on the ADP resource.

1.2.0 Reporting Format-The following illustrates the desired format of the reporting data from each agency. An example of an agency's completed format is found in Appendix A.

1.2.1 Cross Reference-This section for an ADP system is somewhat standardized. The Cross Reference for any ADP system will include:

a. Phase of Flow:

b. Development Organization:

c. User Organizations:

d. Application Software:

e. Communication System(s):

f. Data Networks(s):

5

g.   Interfaced Computer(s)

h.   Point of Contact:

ADP systems which are a component of larger projects will have an field

for "components of:" and the description of the project will replace

"Interfaced Computers" with "Component Systems." (See example format

in Appendix A.)

o   The Phase of Flow cross reference is to identify which one

or more of the phases of information handling (i.e., collec-

tion, processing, etc.) is supported by this resource. The

reporter should try to be as specific as possible.

o   Development Organization should be the single organization

which has total (or primary) responsibility for· making the

system work.

o   User Organization should include all users.

o   Application Software should include the acronym for all the

software packages that are developed for this ADP Resource.

o   Communications System should include the acronym for those

communications which are directly connected to the computer

or connected via a computer to computer line from that computer

which is the local terminus of a communications system.

o   Data Networks should include the acronym for all data networks

accessible by users of this ADP resource.

o   Interfaced Computers should contain the acronym for all ADP

resources which communicate directly with this resource.

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o <u>Point of Contact</u> should identify the organizational title, and office symbol and telephone number for obtaining additional information on this ADP resource.

o <u>Component of</u> should contain the acronym for all ADP projects which utilize a portion of this ADP resource.

o <u>Component Systems</u> should contain the acronyms for all ADP systems, a portion which ADP comprise this project. This information will be used by the reader to obtain detailed information on the component systems.

NOTE: Either the <u>Component of</u> or <u>Component Systems</u> line will be included, as appropriate.

1.2.2 <u>Administrative</u>-The Administrative Information Section for an ADP system is also rather standardized. The Administrative Information Section will include:

a. Financial Data - (See Below)

b. IOC - Date of Initial Operational Capability

c. Upgrade/Replace - (See Below)

d. Software Size - (See Below)

e. Data Base Size: (See Below)

f. Software Languages: (See Below)

o <u>Financial Data should</u> include the initial ADP system and installation costs, present yearly hardware maintanance cost, and present yearly software maintenance cost. Future upgrade/replace costs found in the following subsection should be indicated here.

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o <u>Upgrade/Replace</u> should provide data for all upgrades between
   IOC and the present. It should also contain a brief paragraph
   on the purpose and effect of each upgrade. For future planned
   improvements, the proposed date for operational capability
   of the change should be provided to explain the purpose
   and projected effect of the upgrade. When an ADP system
   is phased out of service the date of phase out, should be
   documented and a reference should be provided'to the system,
   if any, which is replacing the information, handling support
   functions of the system being phased out.

o <u>Software Size</u> data should be clearly documented in appropriate
   sizing units, whether specified in instructions (executable +
   data + non executable + comments or any combination of the above),
   bytes, or words in a program library. These sizes should be re-
   latable to the various support and application software packages
   described in detail in later subsection of this Resource des-
   cription.

o <u>Data Base Size</u> information should be in the bytes of storage.
   Where possible it should be relatable to the product and sup-
   port data bases with an "OTHER" category for the local and work-
   ing data bases.

o <u>Software Languages</u> information should list those languages in
   which the various support and application software instruction
   sets were generated. Where possible the language should be as-

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sociated with the software package(s). Where there are many

variations of a language, such as FORTRAN, the specific variant

shall be provided.

1.2.3 Operational Information-The Operational Information shall

include an overview in a free form narrative, of the purpose

of the resource and the operational modes (batch, real-time, etc.)

which provide the support.

1.2.4 Data Flow-The Data Flow description through the ADP system

should be keyed to the data flow diagram provided. This data flow

text should not be so complete as to describe the functions performed

by the application software. At this point the appropriate software

packages should be mentioned but the detail should be left for later

paragraphs.

1.2.5 Hardware Configuration-The Hardware Configuration description

should include functional equipment diagrams (not detailed installation

wiring diagrams) for the operational ADP resource and any developmental

or test configurations which may support it. For ADP projects that

are supported by portions of one or more ADP systems, a component

diagram should be included, with specific hardware configurations

of the individual resources being provided in the separate, individual

system descriptions.

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1.2.6 <u>Support Software</u>-The Support Software shall contain, at a minimum, a list of operating systems, data base managaement system(s), terminal support subsystem(s) and other utility software packages available to users of this ADP resource. Where the information is available, a brief paragraph might be included for each support software package to identify whether it was a standard or special package, the developer of the package, and a brief statement on the capabilities of the package.

1.2.7 <u>Applications Software</u>-The Applications Software subsection shall contain a different description for each executable software package that supports information handling on this ADP resource. This is to be a functional description of how these programs (which for the most part should remain nameless) are used to handle the incoming data and transform it to the resulting output product. This is not to be a description of software programs, routines, and subroutines which contain sets of instructions and generally operate on a small portion of the incoming data.

Each Application Software package description shall be a separate numbered paragraph and shall contain: a) <u>Cross Reference</u> and b) <u>Functional Description.</u> The Cross Reference is standard and shall include the following:

(a) Phase of Flow:

(b) Responsible Organization:

(c) User Organization:

(d) ADP System:

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(e) Product Data Base(s):

(f) Support Data Base(s):

(g) Point of Contact:

o The Phase of Flow should identify which of the information
  handling phases is supported by this applications software
  package.

o The Responsible Organization should reference the organiza-
  tion that has primary responsibility for implementing and
  maintaining the application software.

o The User Organizations should include a list of all users.

o The ADP System line should contain the acronym for the
  resource on which this software is hosted.

o The Product Data Base line should contain the acronym(s) of any
  data bases built as a result of the execution of this software
  from which copies or products (hard copy) are generated for
  distribution throughout the intelligence community.

o The Support Data Base line should contain the acronym(s)
  of any data bases built from any data received from sources
  external to the agency or facility which contain the ADP
  Resources which support the application software.

o The Point of Contact should identify the organizational title,
  office symbol and telephone number for obtaining additional
  information on this application software package.

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1.2.8 Product Data Bases-See 1.2.9, Support Data Bases.

1.2.9 Support Data Bases-The content of the description for both
the Product and Support data bases is the same. They are separated
to distinguish among their respective support roles and to group
and highlight the community's product data bases. Each product or
support data base description shall be a separate numbered subsection
of subsection 8 or 9, as appropriate. Each description will contain
the following paragraphs:

    (a) Cross Reference

    (b) Functional Description

    (c) Physical Description

    (d) Security

    (e) Data Sources

The Cross Reference Section is standardized and shall contain:

    (a) Phase of Flow:

    (b) Responsible Organization:

    (c) User Organizations:

    (d) ADP System:

    (e) Application Software:

    (f) Point of Contact:

o The Phase of Flow should identify at which phase of the
   information handling process this data base is generated.

o The Responsible Organization for a product data base is that
   organization which maintains configuration and content con-
   trol over the data base. The responsible organization for a

support data base is that organization responsible for in-
suring incoming data is included in the data base in a timely
fashion.

o The ADP System shall be the acronym of the system which hosts
   the data base as it is described here.

o Application Software shall contain the list of acronyms of the
   application software packages hosted on this ADP system that
   generate or use this data base.

o Point of Contact should identify the organizational title and
   office symbol, and telephone number to be contacted for obtaining
   additional information on this data base.

The Functional Description should describe the contents of the data
base in a manner that would be meaningful to personnel who are not ADP
oriented. A functional description of record contents should be included
where possible (this should not be a layout of data fields within the
record).

The Physical Description should contain information on logical and
physical record sizes, the number of logical records in the data base
and the volume of storage media allocated to the data base. Where pos-
sible information concerning the storage media (e.g., disk or tape) should
be included.

Security should include the level(s) of classification of the data
base. Where more than one level is maintained all should be identified.

Data Sources should identify those nodes or agencies, outside the
agency controlling the data base that provide the information which be-
come the data contents.

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1.2.10 <u>Utilization</u>-The Utilization data should identify what percent of the ADP resource is used for a specific intelligence data flow. If the information is readily available, the percent of utilization by the various user organizations is meaningful. Shift utilization should also be provided for each ADP resources.

2.0 <u>Telecommunications Resources</u>

2.1 <u>Reporting Definitions</u>-The major telecommunications systems sup-porting the flow of intelligence and intelligence information among the various information handling phases shall be described here. Both existing and planned communications systems will be included in the Baseline. There are basically two types of communications systems to be documented herein. The large general subscriber systems, such as AUTODIN; and the special-purpose systems which support a particular element or information processing phase. These special systems generally use the facilities and resources of the general subscriber systems. They may use special protocols and dedicated circuits within the general systems.

2.2 <u>Reporting Format</u>-For each communications system included, the follow-ing is the minimal information needed:

    (a) System Owner

    (b) System User(s)

    (c) Transmission Rate(s)

    (d) Terminal Devices

    (e) Bandwidth/allowable data rate

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(f) Transmission Media and Techniques

(g) System Responsiveness

Additional information to be included, if available, might be:

 Current Operational Status

 Planned Improvement/Replacement

 Network Diagram

 Utilization

 Cost at IOC

 Cost for each Improvement/Replacement

This is not to be a detailed description of any telecommunications System, but rather an overview of the capabilities and capacity of the system.

3.0 GLOSSARY

This glossary is intended to include all acronyms of data flow nodes and ADP and communication systems used in the reported data. It should also include all known aliases for any of these acronyms. In addition the Glossary should contain the acronyms for all organizations identified and any acronyms generally used to define system or unit·equipment characteristics.

For a baseline of this eventual size, the Glossary is a significant section, thus a decision has been made not to include the acronyms of data sets files, and programs internal to a particular ADP process.

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These are files that are used to communicate between various segments
of computer software packages and are transparent to any source or con-
sumer beyond the data flow node which is supported by that particular
software package. While it may be necessary to use these acronyms
to describe adequately the flow of data through an ADP system or
applications software package, the use should be localized so no
major inconvenience will be perpetrated by not including these
acronyms in this Glossary.

Where an acronym is expanded in the Glossary the association with
a data flow node, Intelligence Community organization or ADP resource
should be provided as appropriate.

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APPENDIX A

SECTION 4 - EXAMPLE OF FORMAT

N.N.N   RESOURCE Name (Acronym)

N.N.N.1   Cross Reference

    a.   Phase of Flow:

    b.   Development Organization:

    c.   User Organization:

    d.   Application Software:

    e.   Communications Systems:

    f.   Data Networks:

[g.   Interfaced Computers:]   Optional according to type of

[or g.   Component of:] ⌐resource being described.

[or g.   Component Systems:]

    h.   Point of Contact:

N.N.N.2   Administrative Information

    a.   Financial Data:

    b.   IOC:

    c.   Upgrade/Replace:

    d.   Software Size:

    e.   Data Base Size:

    f.   Software Languages

N.N.N.3   RESOURCE Operations

N.N.N.4   RESOURCE Data Flow

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N.N.N.5 RESOURCE Hardware Configuration

N.N.N.6 RESOURCE Support Software

N.NMN.7 RESOURCE Application Software

N.N.N.7.n Specific Application Software Packages Name (Acronym)

   a. Cross Reference

       Phase of Flow:

       Responsible Organization:

       User Organizations:

       ADP System:

       Produuct Data Bases   —

       Support Data Bases:

       Point of Contact:

   b. Functional Description

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N.N.N.8 RESOURCE Product Data Bases

N.N.N.8.n Specific Product Data Base Name (Acronym)

    a. Cross Reference

        Phase of Flow:

        Responsible Organization:

        User Organizations:

        ADP System:

        Applicatiion Software:

        Point of Contact:

    b. Functional Description

    c. Physical Description

    d. Security

    e. Data Sources

N.N.N.9 <u>RESOURCE Support Data Bases</u>

N.N.N.9.n <u>Specific Support Data Base Name (Acronym)</u>

    a. <u>Cross Reference</u>

        Phase of Flow:

        Responsible Organization:

        User Organizations:

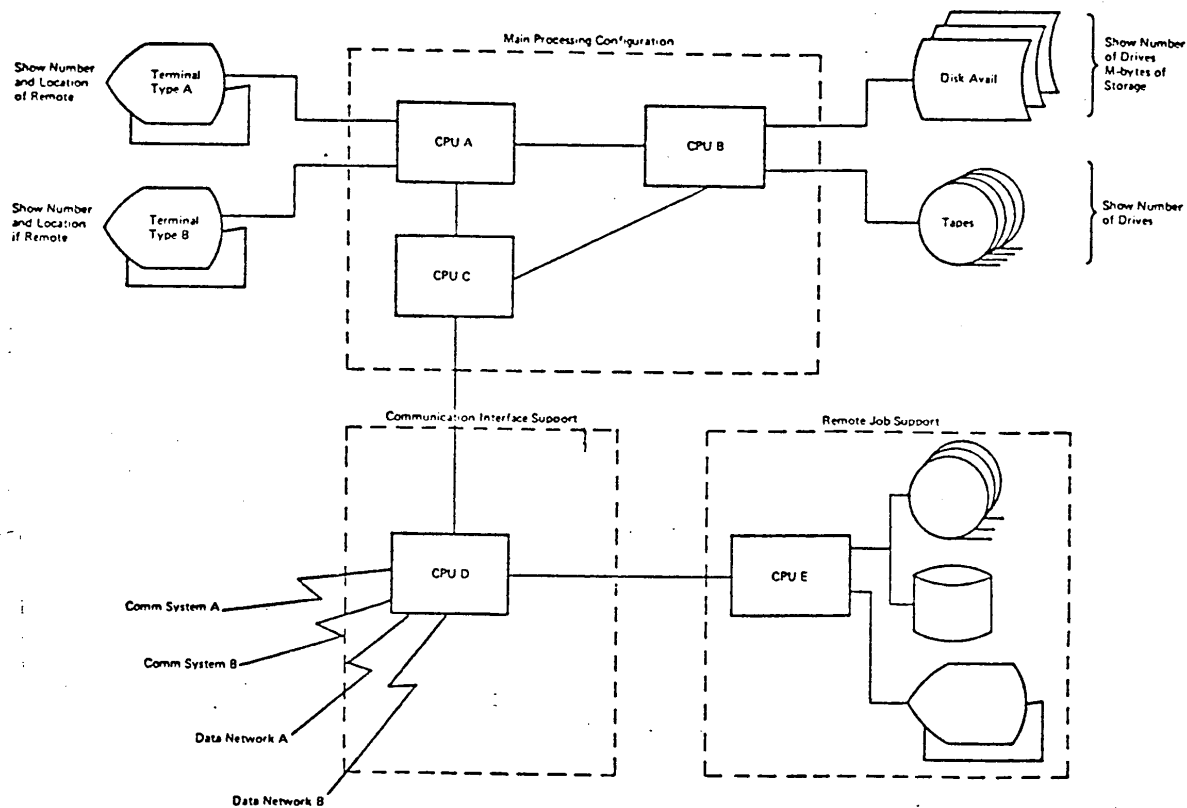   ADP System:

        Application Software:

        Point of Contact:

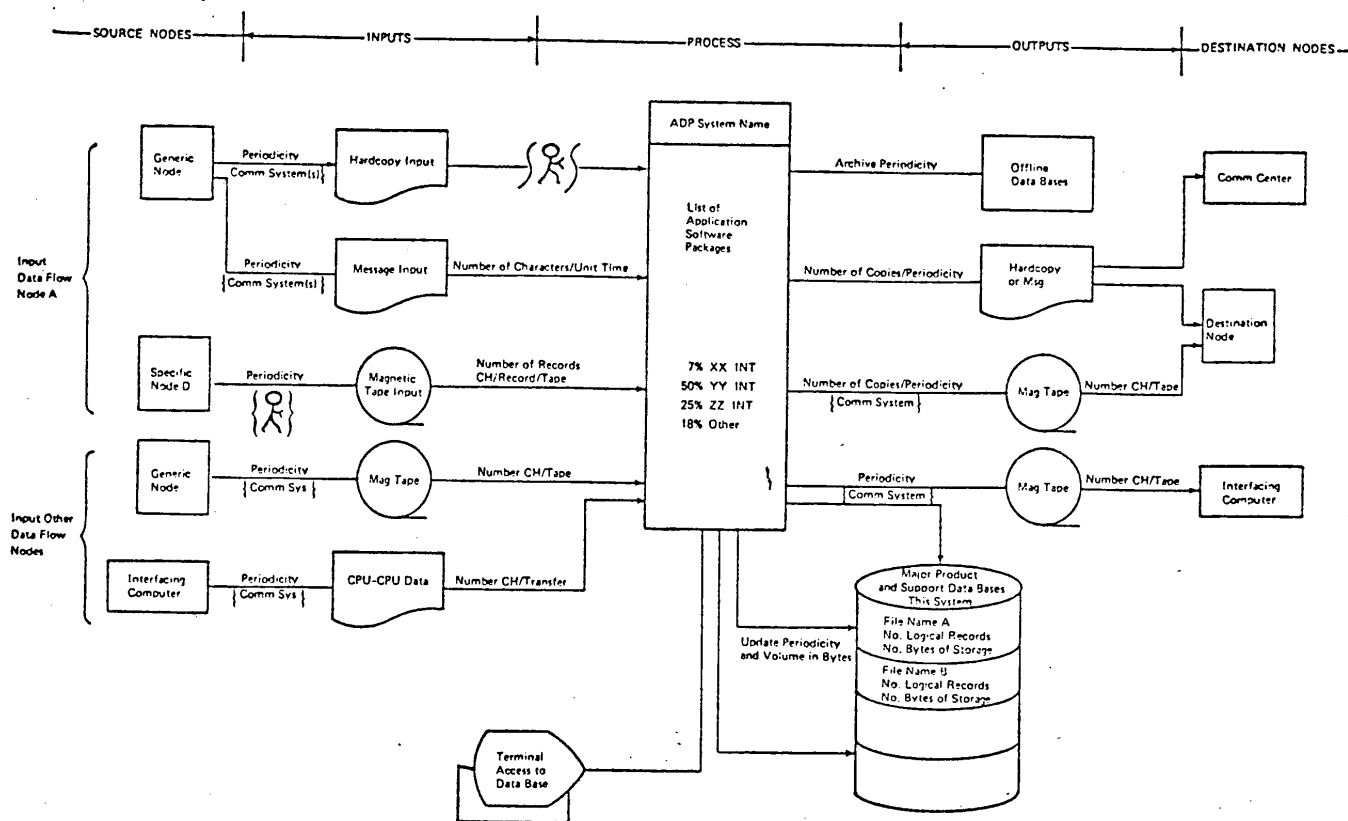   b. <u>Functional Description</u>:

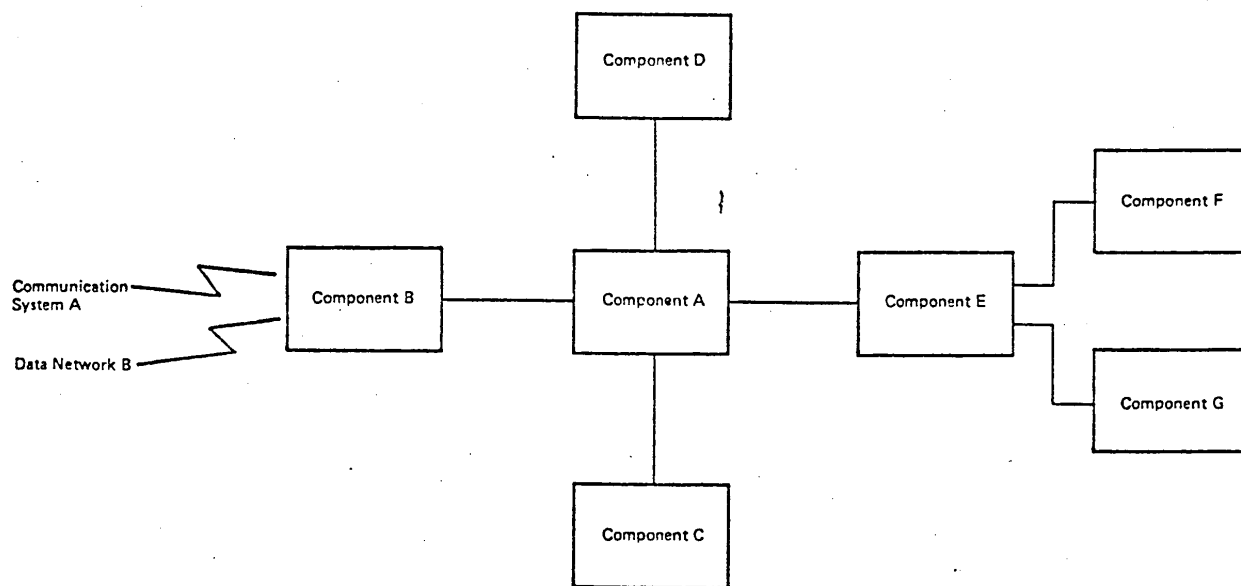   c. <u>Physical Description</u>:

    d. <u>Security</u>:

    e. <u>Data Sources</u>:

N.N.N.10 <u>Resource Utilization</u>

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Generic Hardware Configuration Diagram

SOURCE NODES —— INPUTS —— PROCESS —— OUTPUTS —— DESTINATION NODES

Generic ADP Resource Data Flow Diagram

```
                          ┌──────────────┐
                          │              │
                          │ Component D  │
                          │              │
                          └──────┬───────┘
                                 │
                                 │
  ┌──────────────┐      ┌────────┴──────┐      ┌──────────────┐      ┌──────────────┐
  │              │      │               │      │              │──────│ Component F  │
Communication──  │ Component B  │──────│ Component A   │──────│ Component E  │      └──────────────┐
System A          │              │      │               │      │              │──────┐
  └──────────────┘      └────────┬──────┘      └──────────────┘      │ Component G  │
  Data Network B──                │                                   └──────────────┘
                                 │
                          ┌──────┴───────┐
                          │ Component C  │
                          └──────────────┘
```

Generic Component Configuration Diagram
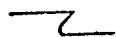
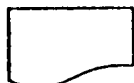CONNECTING DATA FLOW NODE

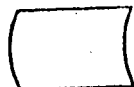MAGNETIC TAPE UNIT OR OFFLINE STORAGE

CARD/CARD READER

CONNECTING COMPUTER (WITHIN FACILITY)
OR CPU OR SWITCH

ELECTRICAL TRANSMISSION
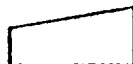
HARD COPY MESSAGE OR DOCUMENT

ONLINE STORAGE OR COMPUTER READABLE
FORMAT

HAND CARRY OR MANUAL INTERVENTION

SOFT COPY OR DISPLAY CONSOLE

DATA ENTRY OR TTY OR KEYBOARD

DATA FLOW

FEEDBACK

PATH CONNECTOR

ONLINE STORAGE

COMMUNICATIONS SYSTEMS

LEGEND FOR DATA FLOWS AND HARDWARE
CONFIGURATION CHARTS